

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level
			2002	2012	Growth	Replace-ments	Total	Entry	
11-0000 Management Occupations				73,990	98,920	2,510	1,370	3,870	
11-1000	Top Executives			21,950	29,020	710	410	1,120	
	11-1011 Chief Executives	5		4,690	6,230	150	90	240	\$27.00 \$60.30 Experience plus Degree
	11-1021 General and Operations Managers	5		16,470	21,760	530	310	840	\$17.10 \$35.80 Experience plus Degree
	11-1031 Legislators	1		790	1,030	20	10	30	\$6.10 \$11.10 Experience plus Degree
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers			6,850	9,670	280	130	410	
	11-2011 Advertising and Promotions Managers	4		1,220	1,720	50	20	70	\$14.10 \$27.20 Experience plus Degree
	11-2021 Marketing Managers	5		1,720	2,350	60	30	90	\$21.00 \$39.40 Experience plus Degree
	11-2022 Sales Managers	5		3,900	5,600	170	70	240	\$18.50 \$37.00 Experience plus Degree
11-3000	Operations Specialties Managers			15,500	20,550	510	270	770	
	11-2031 Public Relations Managers	4		580	730	20	10	30	\$17.70 \$31.40 Experience plus Degree
	11-3011 Administrative Services Managers	4		2,570	3,380	80	50	130	\$12.70 \$23.80 Experience plus Degree
	11-3021 Computer and Information Systems Managers	5		1,870	2,720	80	30	120	\$22.60 \$38.30 Experience plus Degree
	11-3031 Financial Managers	5		5,480	7,270	180	80	260	\$16.70 \$33.20 Experience plus Degree
	11-3040 Human Resources Managers	5		1,610	2,190	60	30	90	\$18.10 \$30.30 Experience plus Degree
	11-3051 Industrial Production Managers	5		1,470	1,830	40	30	70	\$21.00 \$34.50 Bachelor's degree
	11-3061 Purchasing Managers	3		850	980	10	20	30	\$17.20 \$30.30 Experience plus Degree
	11-3071 Transportation, Storage, and Distribution Managers	5		1,090	1,450	40	20	60	\$18.30 \$29.30 Related Work Experience
11-9000	Other Management Occupations			29,690	39,680	1,010	560	1,580	
	11-9011 Farm, Ranch, and Other Agricultural Managers	2		1,120	1,170	10	20	30	\$19.70 \$26.50 Experience plus Degree
	11-9012 Farmers and Ranchers	1		580	450	0	0	0	Long-term on-the-job training
	11-9021 Construction Managers	5		3,810	5,410	160	70	230	\$20.10 \$32.00 Bachelor's degree
	11-9031 Education Administrators, Preschool and Child Care Center/Program	2		480	700	20	10	30	\$10.50 \$22.20 Experience plus Degree
	11-9032 Education Administrators, Elementary and Secondary School	5		1,330	1,860	50	30	90	\$60,100 \$68,800 * Experience plus Degree
	11-9033 Education Administrators, Postsecondary	5		1,170	1,510	40	30	60	\$19.30 \$34.00 Experience plus Degree
	11-9039 Education Administrators, All Other	0		70	80	0	0	0	Experience plus Degree
	11-9041 Engineering Managers	5		1,860	2,350	50	40	90	\$29.60 \$42.00 Experience plus Degree
	11-9051 Food Service Managers	5		4,040	5,920	190	70	250	\$11.00 \$16.80 Related Work Experience
	11-9061 Funeral Directors	3		180	240	10	10	10	\$17.60 \$28.80 Associate degree
	11-9081 Lodging Managers	5		800	1,130	30	10	50	\$11.80 \$17.70 Related Work Experience
	11-9111 Medical and Health Services Managers	5		1,750	2,550	80	30	110	\$20.40 \$32.70 Experience plus Degree
	11-9121 Natural Sciences Managers	3		740	900	20	10	30	\$21.00 \$33.30 Experience plus Degree
	11-9131 Postmasters and Mail Superintendents	4		160	220	10	0	10	\$17.70 \$24.30 Related Work Experience
	11-9141 Property, Real Estate, and Community Association Managers	2		2,590	3,740	110	50	160	\$8.80 \$17.60 Bachelor's degree
	11-9151 Social and Community Service Managers	4		1,250	1,650	40	20	60	\$14.30 \$23.50 Bachelor's degree
	11-9199 Managers, All Other	5		7,770	9,810	200	150	360	\$19.40 \$32.50 Related Work Experience

* Annual Wages.

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings			Hourly Wage		Training Level
			2002	2012	Growth	Replace-ments	Total	Entry	Average	
13-0000	Business and Financial Operations Occupations		40,600	53,970	1,340	740	2,080			
13-1000	Business Operations Specialists		21,590	28,810	720	390	1,110			
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	1	50	70	0	0	0			Experience plus Degree
13-1021	Purchasing Agents and Buyers, Farm Products	3	120	140	0	0	10	\$11.50	\$23.80	Related Work Experience
13-1022	Wholesale and Retail Buyers, Except Farm Products	4	1,180	1,350	20	30	50	\$10.90	\$19.90	Related Work Experience
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	5	1,790	2,170	40	50	80	\$15.80	\$23.30	Related Work Experience
13-1031	Claims Adjusters, Examiners, and Investigators	5	1,130	1,550	40	10	60	\$15.60	\$23.80	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	3	60	80	0	0	0			Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	4	920	1,140	20	20	40	\$14.20	\$21.80	Long-term on-the-job training
13-1051	Cost Estimators	5	1,620	2,180	60	40	90	\$13.40	\$22.50	Related Work Experience
13-1061	Emergency Management Specialists	4	150	200	10	0	10	\$13.40	\$23.00	Related Work Experience
13-1071	Employment, Recruitment, and Placement Specialists	3	1,290	1,780	50	20	70	\$14.20	\$21.30	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	3	880	1,320	40	10	60	\$13.60	\$21.40	Bachelor's degree
13-1073	Training and Development Specialists	3	1,940	2,740	80	30	110	\$12.80	\$21.40	Bachelor's degree
13-1111	Management Analysts	5	2,850	4,180	130	40	170	\$19.00	\$34.60	Experience plus Degree
13-1121	Meeting and Convention Planners	1	450	590	10	10	20	\$11.10	\$16.20	Bachelor's degree
13-1199	Business Operations Specialists, All Other	4	7,180	9,320	220	120	340	\$15.40	\$24.50	Bachelor's degree
13-2000	Financial Specialists		19,010	25,160	620	350	970			
13-2011	Accountants and Auditors	3	7,970	10,710	280	150	430	\$14.80	\$22.40	Bachelor's degree
13-2021	Appraisers and Assessors of Real Estate	4	1,410	2,110	70	30	100	\$9.90	\$18.60	Postsecondary vocational training
13-2031	Budget Analysts	1	570	670	10	10	20	\$19.40	\$25.60	Bachelor's degree
13-2041	Credit Analysts	2	760	1,030	30	10	40	\$11.00	\$20.40	Bachelor's degree
13-2051	Financial Analysts	4	780	1,010	20	10	40	\$17.10	\$29.70	Bachelor's degree
13-2052	Personal Financial Advisors	4	980	1,450	50	10	60	\$16.20	\$38.80	Bachelor's degree
13-2053	Insurance Underwriters	3	410	540	10	10	20	\$14.00	\$21.60	Bachelor's degree
13-2061	Financial Examiners	1	240	290	0	10	10	\$16.60	\$27.30	Bachelor's degree
13-2071	Loan Counselors	0	60	70	0	0	0	\$11.90	\$14.00	Bachelor's degree
13-2072	Loan Officers	3	2,170	2,990	80	40	120	\$13.70	\$22.40	Bachelor's degree
13-2081	Tax Examiners, Collectors, and Revenue Agents	0	1,960	2,020	10	50	50	\$13.90	\$17.40	Bachelor's degree
13-2082	Tax Preparers	3	530	780	30	10	30	\$9.80	\$11.90	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	3	1,180	1,490	30	20	50	\$11.90	\$20.80	Bachelor's degree

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			2002	2012		Replacements	Total	Entry	Average	
15-0000	Computer and Mathematical Occupations		27,920	39,870	1,190	400	1,590			
15-1000	Computer Specialists		25,200	36,280	1,110	340	1,440			
15-1011	Computer and Information Scientists, Research	4	310	450	10	0	20	\$14.70	\$29.30	Doctoral degree
15-1021	Computer Programmers	4	4,240	5,200	100	100	200	\$14.10	\$26.00	Bachelor's degree
15-1031	Computer Software Engineers, Applications	5	2,700	4,250	160	30	180	\$21.50	\$33.30	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	5	1,920	3,140	120	20	140	\$21.50	\$32.80	Bachelor's degree
15-1041	Computer Support Specialists	3	6,100	8,650	260	80	330	\$9.50	\$15.00	Associate degree
15-1051	Computer Systems Analysts	5	3,380	4,730	140	40	170	\$20.90	\$28.30	Bachelor's degree
15-1061	Database Administrators	5	610	940	30	10	40	\$19.20	\$29.00	Bachelor's degree
15-1071	Network and Computer Systems Administrators	4	1,840	2,670	80	20	100	\$17.30	\$25.00	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	4	1,300	2,270	100	20	110	\$14.80	\$24.20	Bachelor's degree
15-1099	Computer Specialists, All Other	5	2,790	3,980	120	30	150	\$11.20	\$22.50	Associate degree
15-2000	Mathematical Science Occupations		2,730	3,590	90	60	150			
15-2011	Actuaries	2	60	70	0	0	0	\$21.60	\$34.90	Experience plus Degree
15-2031	Operations Research Analysts	3	2,480	3,280	80	50	130			Master's degree
15-2041	Statisticians	0	170	210	0	0	10			Master's degree

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SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replace- ments	Total	Entry		Average
17-0000	Architecture and Engineering Occupations		20,040	26,040	600	460	1,060			
17-1000	Architects, Surveyors, and Cartographers		1,600	2,380	80	40	110			
	17-1011 Architects, Except Landscape and Naval	4	730	1,170	40	10	50	\$17.80	\$27.60	Bachelor's degree
	17-1012 Landscape Architects	1	130	200	10	0	10	\$15.20	\$20.00	Bachelor's degree
	17-1021 Cartographers and Photogrammetrists	0	150	200	10	10	10	\$14.20	\$20.90	Bachelor's degree
	17-1022 Surveyors	2	590	800	20	20	40	\$11.90	\$18.90	Bachelor's degree
17-2000	Engineers		9,550	12,030	250	210	460			
	17-2011 Aerospace Engineers	2	240	250	0	10	10	\$26.30	\$32.10	Bachelor's degree
	17-2031 Biomedical Engineers	4	90	130	0	0	10	\$22.50	\$31.20	Bachelor's degree
	17-2041 Chemical Engineers	2	150	180	0	10	10	\$23.10	\$30.40	Bachelor's degree
	17-2051 Civil Engineers	5	1,340	1,790	50	20	70	\$20.40	\$29.50	Bachelor's degree
	17-2061 Computer Hardware Engineers	3	530	700	20	10	30	\$19.10	\$28.60	Bachelor's degree
	17-2071 Electrical Engineers	3	740	880	20	10	30	\$24.20	\$34.70	Bachelor's degree
	17-2072 Electronics Engineers, Except Computer	3	1,070	1,220	20	20	40	\$24.50	\$31.40	Bachelor's degree
	17-2081 Environmental Engineers	5	350	520	20	10	20	\$21.40	\$30.00	Bachelor's degree
	17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	5	640	880	20	20	40	\$21.10	\$29.80	Bachelor's degree
	17-2112 Industrial Engineers	5	1,030	1,340	30	30	60	\$20.20	\$28.60	Bachelor's degree
	17-2131 Materials Engineers	2	170	200	0	0	10	\$17.70	\$26.70	Bachelor's degree
	17-2141 Mechanical Engineers	5	1,700	2,040	40	50	80	\$22.30	\$29.90	Bachelor's degree
	17-2151 Mining and Geological Engineers, Including Mining Safety Engineers	2	130	140	0	0	10	\$22.20	\$32.60	Bachelor's degree
	17-2171 Petroleum Engineers	3	80	110	0	0	10	\$19.90	\$35.00	Bachelor's degree
	17-2199 Engineers, All Other	5	1,260	1,610	30	20	60			Bachelor's degree
17-3000	Drafters, Engineering, and Mapping Technicians		8,890	11,640	280	210	490			
	17-3011 Architectural and Civil Drafters	4	950	1,290	30	30	60	\$11.00	\$16.30	Postsecondary vocational training
	17-3012 Electrical and Electronics Drafters	2	330	390	10	10	20	\$12.10	\$20.80	Postsecondary vocational training
	17-3013 Mechanical Drafters	3	650	790	10	20	30	\$12.20	\$18.70	Postsecondary vocational training
	17-3021 Aerospace Engineering and Operations Technicians	3	70	90	0	0	0			Associate degree
	17-3022 Civil Engineering Technicians	4	660	860	20	10	30	\$12.90	\$18.30	Associate degree
	17-3023 Electrical and Electronic Engineering Technicians	5	2,280	3,040	80	50	120	\$8.90	\$19.60	Associate degree
	17-3024 Electro-Mechanical Technicians	2	360	420	10	10	10	\$15.60	\$20.20	Associate degree
	17-3025 Environmental Engineering Technicians	4	420	650	20	10	30	\$12.20	\$16.60	Associate degree
	17-3026 Industrial Engineering Technicians	3	900	1,050	10	20	30	\$14.50	\$20.20	Associate degree
	17-3027 Mechanical Engineering Technicians	4	690	910	20	10	40	\$15.50	\$20.10	Associate degree
	17-3031 Surveying and Mapping Technicians	5	640	980	30	20	60	\$9.70	\$14.60	Moderate-term on-the-job training
	17-3099 Drafters, Engineering, and Mapping Technicians, All Other (OES Only)	4	940	1,170	20	20	50	\$11.70	\$19.70	Associate degree

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SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replace-ments	Total	Entry		Average
19-0000	Life, Physical, and Social Science Occupations		13,360	17,300	390	310	710			
19-1000	Life Scientists		2,890	3,740	90	70	150			
	19-1010 Agricultural and Food Scientists	1	340	430	10	10	20	\$16.00	\$23.90	Bachelor's degree
	19-1021 Biochemists and Biophysicists	3	210	330	10	10	20	\$15.90	\$23.00	Doctoral degree
	19-1022 Microbiologists	3	260	390	10	10	20	\$17.20	\$23.80	Doctoral degree
	19-1023 Zoologists and Wildlife Biologists	1	210	240	0	10	10	\$16.20	\$23.60	Bachelor's degree
	19-1031 Conservation Scientists	1	230	250	0	10	10	\$17.90	\$25.20	Bachelor's degree
	19-1032 Foresters	0	170	200	0	10	10	\$13.80	\$22.00	Bachelor's degree
	19-1042 Medical Scientists, Except Epidemiologists	3	400	620	20	10	30			Doctoral degree
	19-1099 Life Scientists, All Other	1	1,060	1,280	20	20	40			Bachelor's degree
19-2000	Physical Scientists		1,920	2,430	50	50	100			
	19-2021 Atmospheric and Space Scientists	2	70	90	0	0	0			Bachelor's degree
	19-2031 Chemists	3	590	780	20	20	40	\$16.80	\$25.80	Bachelor's degree
	19-2041 Environmental Scientists and Specialists, Including Health	3	640	820	20	10	30	\$18.00	\$24.80	Master's degree
	19-2042 Geoscientists, Except Hydrologists and Geographers	2	190	220	0	0	10	\$20.00	\$28.60	Master's degree
	19-2043 Hydrologists	3	150	200	10	0	10	\$20.90	\$31.40	Master's degree
	19-2099 Physical Scientists, All Other	2	230	260	0	10	10	\$16.10	\$27.30	Bachelor's degree
19-3000	Social Scientists and Related Workers		4,240	5,870	160	100	270			
	19-3011 Economists	2	60	80	0	0	0	\$19.10	\$37.00	Master's degree
	19-3021 Market Research Analysts	4	1,100	1,530	40	30	70	\$15.40	\$25.40	Master's degree
	19-3022 Survey Researchers	1	440	610	20	10	30			Master's degree
	19-3031 Clinical, Counseling, and School Psychologists	4	1,730	2,530	80	40	120	\$15.40	\$29.50	Doctoral degree
	19-3041 Sociologists	0	60	80	0	0	0			Master's degree
	19-3051 Urban and Regional Planners	0	250	330	10	10	20	\$15.00	\$21.60	Master's degree
	19-3091 Anthropologists and Archeologists	1	50	60	0	0	0	\$13.50	\$21.00	Master's degree
	19-3092 Geographers	3	50	70	0	0	0	\$31.30	\$31.50	Master's degree
	19-3099 Social Scientists and Related Workers, All Other	0	480	570	10	10	20	\$12.90	\$21.80	Master's degree
19-4000	Life, Physical, and Social Science Technicians		4,310	5,250	90	100	190			
	19-4011 Agricultural and Food Science Technicians	0	100	100	0	0	0	\$10.00	\$15.20	Associate degree
	19-4021 Biological Technicians	0	540	710	20	10	30	\$9.90	\$13.00	Associate degree
	19-4031 Chemical Technicians	0	380	470	10	10	20	\$10.60	\$15.60	Associate degree
	19-4041 Geological and Petroleum Technicians	2	110	120	0	0	0	\$13.00	\$21.20	Associate degree
	19-4091 Environmental Science and Protection Technicians, Including Health	4	230	340	10	10	20	\$11.50	\$17.60	Associate degree
	19-4092 Forensic Science Technicians	1	90	110	0	0	0	\$13.90	\$17.00	Associate degree
	19-4093 Forest and Conservation Technicians	0	470	500	0	10	10	\$9.70	\$12.40	Associate degree
	19-4099 Life, Physical, and Social Science Technicians, All Other	2	2,380	2,880	50	60	110			Associate degree

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21-0000 Community and Social Services Occupations		16,980	23,890	690	330	1,020			
21-1000 Counselors, Social Workers, and Other Community and Social Service Specialists		14,210	20,450	620	270	900			
21-1011 Substance Abuse and Behavioral Disorder Counselors	1	500	700	20	10	30	\$8.20	\$12.70	Master's degree
21-1012 Educational, Vocational, and School Counselors	3	2,010	2,520	50	50	100	\$11.80	\$18.20	Master's degree
21-1013 Marriage and Family Therapists	0	240	320	10	10	10	\$11.60	\$17.20	Master's degree
21-1014 Mental Health Counselors	2	1,070	1,470	40	20	60	\$9.60	\$12.70	Master's degree
21-1015 Rehabilitation Counselors	2	790	1,130	40	20	50	\$7.90	\$13.50	Master's degree
21-1021 Child, Family, and School Social Workers	2	2,950	3,990	100	50	150	\$10.30	\$16.10	Bachelor's degree
21-1022 Medical and Public Health Social Workers	3	620	900	30	10	40	\$13.00	\$20.20	Bachelor's degree
21-1023 Mental Health and Substance Abuse Social Workers	3	890	1,280	40	20	50	\$13.70	\$23.30	Master's degree
21-1091 Health Educators	1	280	410	10	10	20	\$10.70	\$17.50	Master's degree
21-1092 Probation Officers and Correctional Treatment Specialists	1	680	870	20	10	30	\$12.20	\$15.00	Bachelor's degree
21-1093 Social and Human Service Assistants	3	4,200	6,870	270	70	340	\$7.50	\$10.70	Moderate-term on-the-job training
21-2000 Religious Workers		2,770	3,450	70	50	120			
21-2011 Clergy	1	1,150	1,310	20	20	40	\$14.10	\$22.60	First professional degree
21-2021 Directors, Religious Activities and Education	0	90	110	0	0	0	\$17.10	\$19.50	Bachelor's degree
21-9099 Counselors, Social, and Religious Workers, All Other (OES Only)		1,530	2,030	50	30	80			
21-9099 Counselors, Social, and Religious Workers, All Other (OES Only)	2	1,530	2,030	50	30	80	\$8.80	\$14.00	Bachelor's degree

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23-0000 Legal Occupations		7,960	9,940	200	90	290			
23-1000 Lawyers, Judges, and Related Workers		4,980	6,420	150	60	210			
23-1011 Lawyers	5	4,480	5,790	130	60	190	\$31.00	\$59.40	First professional degree
23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers	1	170	210	0	0	10	\$14.40	\$25.90	Experience plus Degree
23-1022 Arbitrators, Mediators, and Conciliators	0	210	280	10	0	10	\$13.50	\$20.30	Experience plus Degree
23-1023 Judges, Magistrate Judges, and Magistrates	1	110	140	0	0	10	\$10.10	\$24.20	Experience plus Degree
23-2000 Legal Support Workers		1,950	2,430	50	20	70			
23-2011 Paralegals and Legal Assistants	5	760	1,050	30	10	40	\$13.50	\$18.00	Associate degree
23-2092 Law Clerks	0	270	330	10	0	10	\$9.20	\$15.70	Bachelor's degree
23-2093 Title Examiners, Abstractors, and Searchers	3	920	1,050	10	10	20	\$14.90	\$22.50	Moderate-term on-the-job training
23-9099 Legal and Related Workers, All Other (OES Only)		1,000	1,050	10	10	20			
23-9099 Legal and Related Workers, All Other (OES Only)	0	1,000	1,050	10	10	20	\$15.70	\$19.00	Bachelor's degree

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25-0000	Education, Training, and Library Occupations		63,350	86,990	2,370	1,320	3,690			
25-1000	Postsecondary Teachers		10,740	15,190	450	250	690			
25-1011	Business Teachers, Postsecondary	4	590	840	30	10	40	\$39,200	\$65,000 *	Master's degree
25-1021	Computer Science Teachers, Postsecondary	3	320	450	10	10	20	\$36,500	\$63,900 *	Master's degree
25-1022	Mathematical Science Teachers, Postsecondary	3	330	450	10	10	20	\$36,700	\$62,700 *	Master's degree
25-1032	Engineering Teachers, Postsecondary	4	260	370	10	10	20	\$50,300	\$87,800 *	Doctoral degree
25-1041	Agricultural Sciences Teachers, Postsecondary	3	150	200	10	0	10			Doctoral degree
25-1042	Biological Science Teachers, Postsecondary	4	280	390	10	10	20	\$41,200	\$65,600 *	Doctoral degree
25-1043	Forestry and Conservation Science Teachers, Postsecondary	3	60	90	0	0	0			Doctoral degree
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	3	70	90	0	0	0	\$39,100	\$65,200 *	Doctoral degree
25-1052	Chemistry Teachers, Postsecondary	4	120	170	10	0	10	\$42,000	\$70,300 *	Doctoral degree
25-1053	Environmental Science Teachers, Postsecondary	3	50	70	0	0	0	\$35,200	\$70,900 *	Doctoral degree
25-1054	Physics Teachers, Postsecondary	3	100	140	0	0	10	\$44,500	\$75,200 *	Doctoral degree
25-1063	Economics Teachers, Postsecondary	3	80	120	0	0	10	\$51,000	\$87,600 *	Doctoral degree
25-1064	Geography Teachers, Postsecondary	1	30	40	0	0	0	\$33,700	\$56,100 *	Doctoral degree
25-1065	Political Science Teachers, Postsecondary	4	80	110	0	0	10	\$40,000	\$73,000 *	Doctoral degree
25-1066	Psychology Teachers, Postsecondary	4	180	260	10	0	10	\$38,500	\$64,200 *	Doctoral degree
25-1067	Sociology Teachers, Postsecondary	1	70	100	0	0	10	\$37,700	\$63,000 *	Doctoral degree
25-1071	Health Specialties Teachers, Postsecondary	5	480	690	20	10	30	\$37,200	\$61,000 *	Master's degree
25-1072	Nursing Instructors and Teachers, Postsecondary	3	260	360	10	10	20	\$38,300	\$53,900 *	Doctoral degree
25-1081	Education Teachers, Postsecondary	1	420	600	20	10	30	\$31,200	\$49,200 *	Doctoral degree
25-1112	Law Teachers, Postsecondary	3	50	70	0	0	0			First professional degree
25-1121	Art, Drama, and Music Teachers, Postsecondary	4	480	700	20	10	30	\$29,700	\$49,700 *	Master's degree
25-1122	Communications Teachers, Postsecondary	3	160	230	10	0	10	\$35,100	\$52,800 *	Doctoral degree
25-1123	English Language and Literature Teachers, Postsecondary	3	400	570	20	10	30	\$32,500	\$48,700 *	Master's degree
25-1124	Foreign Language and Literature Teachers, Postsecondary	3	130	180	10	0	10	\$35,500	\$52,000 *	Master's degree
25-1125	History Teachers, Postsecondary	1	110	160	10	0	10	\$39,900	\$61,600 *	Doctoral degree
25-1126	Philosophy and Religion Teachers, Postsecondary	4	70	100	0	0	10	\$36,900	\$60,800 *	Doctoral degree
25-1191	Graduate Teaching Assistants	2	1,550	2,140	60	40	100			Bachelor's degree
25-1192	Home Economics Teachers, Postsecondary	0	80	110	0	0	10	\$27,500	\$44,200 *	Master's degree
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	1	220	300	10	10	10	\$18,300	\$36,700 *	Master's degree
25-1194	Vocational Education Teachers, Postsecondary	5	3,150	4,490	130	70	210	\$13.80	\$19.90 *	Related Work Experience
25-1199	Postsecondary Teachers, All Other	1	280	390	10	10	20			Doctoral degree
25-2000	Primary, Secondary, and Special Education School Teachers		30,620	41,560	1,090	660	1,750			
25-2011	Preschool Teachers, Except Special Education	2	5,530	8,050	250	70	320	\$7.10	\$9.20	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	2	840	1,190	40	10	50	\$18,900	\$33,400 *	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	3	8,950	11,870	290	200	490	\$27,600	\$38,100 *	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	3	5,800	7,290	150	130	280	\$27,700	\$39,400 *	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	0	240	300	10	10	10	\$21,900	\$35,000 *	Experience plus Degree
25-2031	Secondary School Teachers, Except Special and Vocational Education	3	6,680	9,110	240	190	430	\$30,200	\$44,100 *	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	1	520	650	10	20	30	\$28,700	\$41,300 *	Experience plus Degree
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	3	1,080	1,610	50	30	80	\$28,200	\$38,100 *	Bachelor's degree
25-2042	Special Education Teachers, Middle School	1	260	390	10	10	20	\$25,700	\$37,100 *	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	3	730	1,100	40	20	50	\$28,100	\$41,100 *	Bachelor's degree
25-3000	Other Teachers and Instructors		3,740	5,390	170	50	210			
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	2	810	1,120	30	10	40			Bachelor's degree
25-3021	Self-Enrichment Education Teachers	4	1,390	2,090	70	20	90	\$8.10	\$12.70	Related Work Experience
25-3999	Teachers, Primary, Secondary, and Adult, All Other (OES Only)	2	1,540	2,180	60	20	80	\$16,700	\$21,300 *	Bachelor's degree
25-4000	Librarians, Curators, and Archivists		2,420	3,060	60	70	140			
25-4010	Archivists, Curators, and Museum Technicians	0	160	210	10	0	10	\$14.20	\$18.00	Master's degree
25-4021	Librarians	1	1,040	1,270	20	30	50	\$11.30	\$18.80	Master's degree
25-4031	Library Technicians	3	1,220	1,580	40	50	80	\$7.40	\$10.90	Short-term on-the-job training
25-9000	Other Education, Training, and Library Occupations		15,830	21,790	600	300	900			
25-9011	Audio-Visual Collections Specialists	3	60	70	0	0	0	\$8.40	\$15.50	Moderate-term on-the-job training
25-9031	Instructional Coordinators	2	1,070	1,470	40	20	60	\$12.80	\$20.20	Master's degree
25-9041	Teacher Assistants	2	14,480	19,970	550	280	830	\$13,900	\$18,800 *	Short-term on-the-job training
25-9199	Library, Museum, Training, and Other Education Workers, All Other (OES Only)	0	220	280	10	0	10	\$9.80	\$13.30	Bachelor's degree

* Annual Wages.

Note: Data may not add to total due to rounding and the exclusion of occupations with small employment.

Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replacements	Total	Entry		Average
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations		22,660	30,350	770	420	1,190			
27-1000	Art and Design Workers		7,350	9,910	260	120	380			
27-1011	Art Directors	3	320	420	10	10	20	\$16.30	\$27.80	Experience plus Degree
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	4	520	720	20	10	30			Long-term on-the-job training
27-1014	Multi-Media Artists and Animators	3	1,340	1,830	50	30	80	\$10.30	\$18.90	Bachelor's degree
27-1021	Commercial and Industrial Designers	3	530	750	20	10	30	\$13.00	\$22.40	Bachelor's degree
27-1023	Floral Designers	1	940	1,140	20	10	30	\$7.30	\$9.60	Moderate-term on-the-job training
27-1024	Graphic Designers	2	1,690	2,350	70	20	90	\$10.90	\$16.90	Bachelor's degree
27-1025	Interior Designers	1	370	510	10	10	20	\$11.00	\$17.70	Bachelor's degree
27-1026	Merchandise Displayers and Window Trimmers	1	730	950	20	10	30	\$7.40	\$10.50	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	0	100	130	0	0	10	\$10.60	\$18.60	Bachelor's degree
27-1099	Art and Design Workers, All Other (OES Only)	2	770	1,040	30	10	40	\$7.80	\$13.30	Bachelor's degree
27-2000	Entertainers, and Performers, Sports, and Related Workers		5,580	7,180	160	100	260			
27-2011	Actors	2	1,140	1,570	40	20	60			Long-term on-the-job training
27-2012	Producers and Directors	3	650	840	20	10	30	\$25,100	\$60,500 *	Experience plus Degree
27-2021	Athletes and Sports Competitors	3	250	340	10	10	10	\$24,000	\$53,100 *	Long-term on-the-job training
27-2022	Coaches and Scouts	5	840	1,150	30	20	50	\$15,900	\$33,500 *	Long-term on-the-job training
27-2023	Umpires, Referees, and Other Sports Officials	0	130	170	0	0	10	\$12,400	\$15,000 *	Long-term on-the-job training
27-2031	Dancers	0	290	350	10	20	20	\$5.80	\$8.80	Long-term on-the-job training
27-2032	Choreographers	5	80	120	0	10	10	\$10.00	\$17.00	Related Work Experience
27-2041	Music Directors and Composers	0	110	140	0	0	10	\$26,300	\$40,800 *	Experience plus Degree
27-2042	Musicians and Singers	3	430	510	10	10	20			Long-term on-the-job training
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	1	1,660	1,990	30	20	50			Long-term on-the-job training
27-3000	Media and Communication Workers		6,430	8,590	220	120	340			
27-3010	Announcers	1	540	590	10	10	20	\$7.30	\$18.60	Long-term on-the-job training
27-3020	News Analysts, Reporters and Correspondents	0	360	390	0	10	10	\$11.60	\$17.80	Experience plus Degree
27-3031	Public Relations Specialists	3	970	1,360	40	10	50	\$13.80	\$21.80	Bachelor's degree
27-3041	Editors	3	870	1,150	30	20	50	\$11.40	\$18.90	Bachelor's degree
27-3042	Technical Writers	3	470	630	20	10	30	\$16.20	\$24.30	Bachelor's degree
27-3043	Writers and Authors	2	2,270	3,190	90	40	130	\$9.60	\$16.00	Bachelor's degree
27-3091	Interpreters and Translators	3	470	620	20	10	20	\$9.80	\$14.00	Long-term on-the-job training
27-3099	Media and Communication Workers, All Other	4	490	650	20	10	20	\$10.10	\$17.20	Long-term on-the-job training
27-4000	Media and Communication Equipment Workers		3,300	4,680	140	80	210			
27-4011	Audio and Video Equipment Technicians	4	850	1,240	40	20	60	\$9.70	\$14.00	Long-term on-the-job training
27-4012	Broadcast Technicians	4	400	590	20	10	30			Associate degree
27-4014	Sound Engineering Technicians	1	380	530	20	10	30			Postsecondary vocational training
27-4021	Photographers	4	810	1,060	30	20	40	\$8.00	\$13.70	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	4	570	890	30	10	50	\$9.90	\$24.20	Moderate-term on-the-job training
27-4032	Film and Video Editors	0	90	120	0	0	10	\$10.40	\$22.90	Bachelor's degree
27-4099	Media and Communication Equipment Workers, All Other	3	200	240	0	0	10	\$7.50	\$16.70	Moderate-term on-the-job training

* Annual Wages.

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replace- ments	Total	Entry		Average
29-0000	Healthcare Practitioners, and Technical Occupations		47,940	68,140	2,020	910	2,940			
29-1000	Health Diagnosing and Treating Practitioners		29,580	42,640	1,310	590	1,900			
29-1011	Chiropractors	4	710	1,020	30	10	40	\$18.00	\$28.10	First professional degree
29-1020	Dentists	5	2,080	2,500	40	40	80			First professional degree
29-1031	Dietitians and Nutritionists	1	370	500	10	10	20	\$14.70	\$19.50	Bachelor's degree
29-1041	Optometrists	3	260	340	10	10	20	\$19.30	\$35.50	First professional degree
29-1051	Pharmacists	5	1,870	3,120	130	40	160	\$29.80	\$37.00	First professional degree
29-1061	Anesthesiologists	3	220	310	10	0	10			First professional degree
29-1062	Family and General Practitioners	4	870	1,140	30	10	40	\$40.40	\$73.80	First professional degree
29-1063	Internists, General	3	190	250	10	0	10	\$58.70	\$83.20	First professional degree
29-1064	Obstetricians and Gynecologists	4	110	150	10	0	10		\$100.90	First professional degree
29-1065	Pediatricians, General	3	170	230	10	0	10	\$64.70	\$82.10	First professional degree
29-1066	Psychiatrists	3	170	230	10	0	10	\$47.30	\$64.90	First professional degree
29-1067	Surgeons	4	530	720	20	10	30		\$93.00	First professional degree
29-1069	Physicians and Surgeons, All Other	2	240	280	0	0	10	\$42.90	\$54.70	First professional degree
29-1071	Physician Assistants	5	410	660	30	10	30	\$22.00	\$32.70	Bachelor's degree
29-1081	Podiatrists	2	60	80	0	0	0	\$16.30	\$59.00	First professional degree
29-1111	Registered Nurses	5	15,180	22,000	680	320	1,000	\$18.30	\$23.10	Associate degree
29-1121	Audiologists	1	80	120	0	0	10	\$17.40	\$23.00	Master's degree
29-1122	Occupational Therapists	4	490	740	30	10	30	\$9.60	\$21.40	Bachelor's degree
29-1123	Physical Therapists	5	940	1,430	50	10	60	\$20.00	\$28.00	Master's degree
29-1125	Recreational Therapists	3	290	370	10	10	20	\$10.40	\$14.70	Bachelor's degree
29-1126	Respiratory Therapists	5	570	900	30	20	50	\$16.70	\$19.80	Associate degree
29-1127	Speech-Language Pathologists	3	550	790	20	10	40	\$14.20	\$22.60	Master's degree
29-1131	Veterinarians	3	430	550	10	10	20	\$16.50	\$35.10	First professional degree
29-1199	Health Diagnosing and Treating Practitioners, All Other	2	2,760	4,170	140	60	200			Bachelor's degree
29-2000	Health Technologists and Technicians		15,970	22,490	650	280	930			
29-2011	Medical and Clinical Laboratory Technologists	3	1,140	1,580	40	30	70	\$13.80	\$20.00	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	2	1,360	1,870	50	40	90	\$7.90	\$11.20	Associate degree
29-2021	Dental Hygienists	5	930	1,400	50	10	60			Associate degree
29-2031	Cardiovascular Technologists and Technicians	5	270	410	10	10	20			Associate degree
29-2032	Diagnostic Medical Sonographers	3	300	420	10	10	20	\$19.10	\$23.80	Associate degree
29-2033	Nuclear Medicine Technologists	3	80	110	0	0	10	\$19.50	\$22.70	Associate degree
29-2034	Radiologic Technologists and Technicians	4	1,430	1,990	60	30	80	\$14.00	\$17.70	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	2	1,570	2,180	60	20	80	\$7.80	\$11.60	Postsecondary vocational training
29-2051	Dietetic Technicians	1	230	320	10	0	10	\$7.80	\$10.50	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	4	1,680	2,610	90	20	120	\$10.30	\$12.70	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	1	950	1,170	20	10	30	\$8.60	\$10.40	Moderate-term on-the-job training
29-2054	Respiratory Therapy Technicians	3	150	230	10	0	10	\$10.70	\$15.50	Postsecondary vocational training
29-2055	Surgical Technologists	3	530	780	30	10	30	\$11.10	\$14.30	Postsecondary vocational training
29-2056	Veterinary Technologists and Technicians	1	320	440	10	0	20	\$6.90	\$9.30	Associate degree
29-2061	Licensed Practical and Licensed Vocational Nurses	3	2,910	3,830	90	60	160	\$11.60	\$14.70	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	2	1,450	2,270	80	20	100	\$8.30	\$11.20	Associate degree
29-2081	Opticians, Dispensing	1	620	810	20	10	30	\$8.40	\$11.90	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	3	50	70	0	0	0			Bachelor's degree
29-9000	Other Healthcare Practitioners and Technical Occupations		2,390	3,020	60	50	110			
29-9010	Occupational Health and Safety Specialists and Technicians	2	340	410	10	10	10	\$17.50	\$28.30	Bachelor's degree
29-9091	Athletic Trainers	2	290	440	20	10	20			Bachelor's degree
29-9199	Health Professionals and Technicians, All Other (OES Only)	4	1,760	2,170	40	30	70	\$11.20	\$17.60	Postsecondary vocational training

* Annual Wages.

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replace-ments	Total	Entry		Average
31-0000 Healthcare Support Occupations			24,420	36,290	1,190	420	1,610			
31-1000 Nursing, Psychiatric, and Home Health Aides			10,860	15,930	510	140	650			
	31-1011 Home Health Aides	2	2,080	3,510	140	30	170	\$7.30	\$9.50	Short-term on-the-job training
	31-1012 Nursing Aides, Orderlies, and Attendants	2	8,350	11,830	350	110	460	\$7.80	\$9.30	Short-term on-the-job training
	31-1013 Psychiatric Aides	2	430	590	20	10	20	\$7.90	\$9.30	Short-term on-the-job training
31-2000 Occupational and Physical Therapist Assistants and Aides			1,110	1,810	70	20	90			
	31-2011 Occupational Therapist Assistants	4	140	220	10	0	10	\$13.90	\$17.20	Associate degree
	31-2012 Occupational Therapist Aides	3	70	110	0	0	10			Short-term on-the-job training
	31-2021 Physical Therapist Assistants	4	240	380	10	0	20	\$13.40	\$16.30	Associate degree
	31-2022 Physical Therapist Aides	3	670	1,110	40	10	60	\$7.60	\$9.00	Short-term on-the-job training
31-9000 Other Healthcare Support Occupations			12,450	18,550	610	260	870			
	31-9011 Massage Therapists	4	1,120	1,740	60	20	80	\$8.30	\$16.10	Postsecondary vocational training
	31-9091 Dental Assistants	2	3,420	5,150	170	100	270	\$7.80	\$9.90	Moderate-term on-the-job training
	31-9092 Medical Assistants	3	3,300	5,590	230	60	290	\$9.20	\$10.80	Moderate-term on-the-job training
	31-9093 Medical Equipment Preparers	3	510	720	20	10	30			Short-term on-the-job training
	31-9094 Medical Transcriptionists	3	620	850	20	10	40	\$8.90	\$12.90	Postsecondary vocational training
	31-9095 Pharmacy Aides	1	330	440	10	10	20	\$7.20	\$10.60	Short-term on-the-job training
	31-9096 Veterinary Assistants and Laboratory Animal Caretakers	0	500	630	10	10	20	\$6.60	\$8.70	Short-term on-the-job training
	31-9099 Healthcare Support Workers, All Other	3	2,660	3,430	80	50	130			Short-term on-the-job training

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Utah Occupational Projections 2002 - 2012

SOC Code	Stars	Employment		Annual Openings			Hourly Wage		Training Level
		2002	2012	Growth	Replace-ments	Total	Entry	Average	
33-0000 Protective Service Occupations		20,930	27,580	670	670	1,340			
33-1000 First-Line Supervisors/Managers, Protective Service Workers		2,290	2,980	70	70	140			
33-1011 First-Line Supervisors/Managers of Correctional Officers	3	350	440	10	10	20	\$17.90	\$21.70	Related Work Experience
33-1012 First-Line Supervisors/Managers of Police and Detectives	5	1,040	1,350	30	30	70	\$18.00	\$25.30	Related Work Experience
33-1021 First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	4	420	550	10	20	30	\$18.70	\$26.70	Related Work Experience
33-1099 First-Line Supervisors/Managers, Protective Service Workers, All Other	4	490	640	20	10	30	\$11.90	\$20.20	Related Work Experience
33-2000 Fire Fighting and Prevention Workers		2,140	2,790	60	60	130			
33-2011 Fire Fighters	4	2,080	2,720	60	60	120	\$8.00	\$13.60	Long-term on-the-job training
33-2021 Fire Inspectors and Investigators	3	50	60	0	0	0	\$17.30	\$21.40	Related Work Experience
33-3000 Law Enforcement Workers		5,850	7,590	180	140	310			
33-3011 Bailiffs	4	50	60	0	0	0	\$9.70	\$14.20	Moderate-term on-the-job training
33-3012 Correctional Officers and Jailers	5	2,220	2,850	60	50	110	\$12.40	\$15.30	Moderate-term on-the-job training
33-3021 Detectives and Criminal Investigators	4	480	620	20	10	30	\$16.20	\$22.70	Related Work Experience
33-3031 Fish and Game Wardens	3	70	90	0	0	0	\$13.50	\$17.60	Long-term on-the-job training
33-3041 Parking Enforcement Workers	1	60	80	0	0	0	\$7.60	\$10.60	Short-term on-the-job training
33-3051 Police and Sheriff's Patrol Officers	5	2,970	3,890	90	80	170	\$14.10	\$17.80	Long-term on-the-job training
33-9000 Other Protective Service Workers		10,650	14,220	360	400	760			
33-9011 Animal Control Workers	3	150	200	10	10	20	\$8.80	\$12.50	Moderate-term on-the-job training
33-9021 Private Detectives and Investigators	3	200	270	10	0	10	\$8.50	\$12.90	Related Work Experience
33-9032 Security Guards	3	6,120	8,570	250	130	380	\$8.00	\$11.40	Short-term on-the-job training
33-9091 Crossing Guards	2	990	1,320	30	30	70	\$6.00	\$7.80	Short-term on-the-job training
33-9099 Protective Service Workers, All Other	3	3,190	3,860	70	220	290	\$6.50	\$10.30	Short-term on-the-job training

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Utah Occupational Projections 2002 - 2012

SOC Code	Stars	Employment		Annual Openings			Hourly Wage		Training Level
		2002	2012	Growth	Replacements	Total	Entry	Average	
35-0000 Food Preparation and Serving Related Occupations		79,520	114,560	3,510	3,160	6,660			
35-1000 Supervisors, Food Preparation and Serving Workers		7,070	10,020	300	170	470			
35-1011 Chefs and Head Cooks	3	1,050	1,540	50	30	80	\$8.00	\$12.90	Related Work Experience
35-1012 First-Line Supervisors/Managers of Food Preparation and Serving Workers	4	6,020	8,480	250	140	390	\$8.70	\$11.90	Related Work Experience
35-2000 Cooks and Food Preparation Workers		24,380	33,490	910	790	1,700			
35-2011 Cooks, Fast Food	2	7,340	9,770	240	230	470	\$6.00	\$6.90	Short-term on-the-job training
35-2012 Cooks, Institution and Cafeteria	2	3,810	4,350	60	120	170	\$6.80	\$9.30	Moderate-term on-the-job training
35-2014 Cooks, Restaurant	2	5,150	7,550	240	160	400	\$7.30	\$9.30	Long-term on-the-job training
35-2015 Cooks, Short Order	2	1,380	1,880	50	40	90	\$6.70	\$7.80	Short-term on-the-job training
35-2021 Food Preparation Workers	2	6,700	9,940	320	240	560	\$6.00	\$7.70	Short-term on-the-job training
35-3000 Food and Beverage Serving Workers		38,800	57,880	1,910	1,890	3,800			
35-3011 Bartenders	2	1,720	2,300	60	70	130	\$6.00	\$8.10	Short-term on-the-job training
35-3021 Combined Food Preparation and Serving Workers, Including Fast Food	2	15,360	23,580	820	670	1,490	\$6.10	\$7.10	Short-term on-the-job training
35-3022 Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	2	4,020	6,000	200	260	460	\$6.00	\$7.30	Short-term on-the-job training
35-3031 Waiters and Waitresses	2	16,730	24,740	800	860	1,660	\$6.00	\$7.60	Short-term on-the-job training
35-3041 Food Servers, Nonrestaurant	2	970	1,270	30	30	60	\$5.90	\$7.50	Short-term on-the-job training
35-9000 Other Food Preparation and Serving Related Workers		9,270	13,170	390	310	700			
35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers	2	2,660	3,820	120	90	210	\$6.00	\$7.10	Short-term on-the-job training
35-9021 Dishwashers	2	3,290	4,500	120	110	230	\$6.00	\$7.00	Short-term on-the-job training
35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	2	2,510	3,710	120	80	200	\$6.20	\$7.50	Short-term on-the-job training
35-9099 Food Preparation and Serving Related Workers, All Other	2	800	1,130	30	30	60	\$5.90	\$7.40	Short-term on-the-job training

* Annual Wages.

Note: Data may not add to total due to rounding and the exclusion of occupations with small employment.

Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Growth	Annual Openings		Hourly Wage		Training Level
			2002	2012		Replace-ments	Total	Entry	Average	
37-0000	Building and Grounds Cleaning and Maintenance Occupations		41,680	56,910	1,520	830	2,360			
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers		3,290	4,520	120	60	180			
	37-1011 First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	4	1,900	2,560	70	50	110	\$9.30	\$13.80	Related Work Experience
	37-1012 First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	5	1,390	1,960	60	10	70	\$11.30	\$16.60	Related Work Experience
37-2000	Building Cleaning and Pest Control Workers		27,990	38,090	1,010	550	1,560			
	37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners	2	18,530	24,650	610	350	960	\$6.60	\$8.80	Short-term on-the-job training
	37-2012 Maids and Housekeeping Cleaners	2	9,220	13,140	390	190	590	\$6.20	\$7.80	Short-term on-the-job training
	37-2021 Pest Control Workers	0	240	310	10	0	10	\$9.50	\$12.00	Moderate-term on-the-job training
37-3000	Grounds Maintenance Workers		9,870	13,570	370	220	590			
	37-3011 Landscaping and Groundskeeping Workers	2	8,680	11,980	330	190	520	\$7.20	\$9.70	Short-term on-the-job training
	37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation	1	230	290	10	10	10	\$10.20	\$12.50	Moderate-term on-the-job training
	37-3013 Tree Trimmers and Pruners	3	970	1,310	30	20	60			Short-term on-the-job training
37-9000	Building and Grounds Cleaning and Maintenance Workers, All Other (OES Only)		530	720	20	10	30			
	37-9099 Building and Grounds Cleaning and Maintenance Workers, All Other (OES Only)	3	530	720	20	10	30	\$11.20		Short-term on-the-job training

* Annual Wages.

Note: Data may not add to total due to rounding and the exclusion of occupations with small employment.

Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replace-ments	Total	Entry		Average
39-0000	Personal Care and Service Occupations		29,930	43,040	1,310	710	2,020			
39-1000	Supervisors, Personal Care and Service Workers		1,690	2,420	70	40	120			
	39-1021 First-Line Supervisors/Managers of Personal Service Workers	4	1,690	2,420	70	40	120	\$9.20	\$14.30	Related Work Experience
39-2000	Animal Care and Service Workers		1,590	1,930	30	40	80			
	39-2011 Animal Trainers	0	250	290	0	10	10			Moderate-term on-the-job training
	39-2021 Nonfarm Animal Caretakers	1	1,260	1,510	20	30	60	\$6.20	\$8.60	Short-term on-the-job training
	39-3021 Motion Picture Projectionists	2	80	130	10	0	10	\$6.50	\$7.90	Short-term on-the-job training
39-3000	Entertainment Attendants and Related Workers		4,090	6,050	200	140	340			
	39-3031 Ushers, Lobby Attendants, and Ticket Takers	2	870	1,140	30	50	80	\$6.00	\$6.70	Short-term on-the-job training
	39-3091 Amusement and Recreation Attendants	2	3,030	4,660	160	90	250	\$6.10	\$7.30	Short-term on-the-job training
	39-3093 Locker Room, Coatroom, and Dressing Room Attendants	1	140	200	10	0	10	\$6.40	\$8.40	Short-term on-the-job training
39-4000	Funeral Service Workers		190	270	10	0	10			
	39-4021 Funeral Attendants	5	160	230	10	0	10	\$8.60	\$16.50	Short-term on-the-job training
39-5000	Personal Appearance Workers		6,350	9,170	280	120	410			
	39-5011 Barbers	0	150	210	10	0	10			Postsecondary vocational training
	39-5012 Hairdressers, Hairstylists, and Cosmetologists	2	5,640	8,110	250	110	360	\$7.10	\$10.00	Postsecondary vocational training
	39-5092 Manicurists and Pedicurists	3	160	250	10	0	10	\$9.50	\$13.00	Postsecondary vocational training
	39-5094 Skin Care Specialists	3	390	580	20	10	30	\$9.10	\$15.90	Postsecondary vocational training
39-6000	Transportation, Tourism, and Lodging Attendants		3,150	4,170	100	60	160			
	39-6011 Baggage Porters and Bellhops	1	290	400	10	10	20	\$6.00	\$10.00	Short-term on-the-job training
	39-6012 Concierges	2	210	300	10	10	10	\$7.50	\$9.50	Moderate-term on-the-job training
	39-6021 Tour Guides and Escorts	1	660	850	20	20	40	\$7.10	\$10.80	Moderate-term on-the-job training
	39-6022 Travel Guides	4	100	140	0	0	10	\$12.60	\$14.40	Moderate-term on-the-job training
	39-6031 Flight Attendants	4	1,690	2,200	50	20	70			Long-term on-the-job training
	39-6032 Transportation Attendants, Except Flight Attendants and Baggage Porters	1	210	280	10	0	10	\$6.50	\$8.80	Short-term on-the-job training
39-9000	Other Personal Care and Service Workers		12,880	19,040	610	300	920			
	39-9011 Child Care Workers	2	3,970	5,690	170	110	280	\$5.90	\$7.20	Short-term on-the-job training
	39-9021 Personal and Home Care Aides	2	2,150	3,520	140	30	170	\$7.30	\$8.20	Short-term on-the-job training
	39-9031 Fitness Trainers and Aerobics Instructors	3	2,100	3,320	120	50	170	\$8.60	\$15.50	Postsecondary vocational training
	39-9032 Recreation Workers	2	3,800	5,180	140	90	230	\$6.10	\$8.80	Bachelor's degree
	39-9041 Residential Advisors	2	250	390	10	10	20	\$7.60	\$9.80	Moderate-term on-the-job training
	39-9099 Personal Care and Service Workers, All Other	2	610	940	30	10	50	\$6.10	\$8.10	Short-term on-the-job training

* Annual Wages.

Note: Data may not add to total due to rounding and the exclusion of occupations with small employment.

Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replace- ments	Total	Entry		Average
41-0000	Sales and Related Occupations		137,920	177,490	3,960	4,350	8,300			
41-1000	Supervisors, Sales Workers		20,950	27,410	650	380	1,030			
	41-1011 First-Line Supervisors/Managers of Retail Sales Workers	5	15,780	20,650	490	280	770	\$9.80	\$15.50	Related Work Experience
	41-1012 First-Line Supervisors/Managers of Non-Retail Sales Workers	5	5,180	6,770	160	100	260	\$12.90	\$24.10	Related Work Experience
41-2000	Retail Sales Workers		73,460	94,920	2,150	3,020	5,170			
	41-2011 Cashiers	2	29,130	38,670	950	1,420	2,370	\$6.10	\$7.90	Short-term on-the-job training
	41-2021 Counter and Rental Clerks	2	3,790	5,310	150	150	300	\$6.50	\$9.30	Short-term on-the-job training
	41-2022 Parts Salespersons	3	2,010	2,210	20	60	80	\$9.20	\$13.60	Moderate-term on-the-job training
	41-2031 Retail Salespersons	2	38,530	48,730	1,020	1,400	2,420	\$6.90	\$10.20	Short-term on-the-job training
41-3000	Sales Representatives, Services		7,760	9,920	220	150	360			
	41-3011 Advertising Sales Agents	5	1,650	2,050	40	30	70	\$9.30	\$16.60	Moderate-term on-the-job training
	41-3021 Insurance Sales Agents	2	3,080	4,260	120	70	190	\$10.90	\$23.20	Bachelor's degree
	41-3031 Securities, Commodities, and Financial Services Sales Agents	3	2,260	2,830	60	30	80	\$16.30	\$35.90	Bachelor's degree
	41-3041 Travel Agents	0	770	780	0	20	20	\$8.50	\$12.70	Postsecondary vocational training
41-4000	Sales Representatives, Wholesale and Manufacturing		16,180	21,360	520	430	940			
	41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5	4,220	5,570	140	110	250	\$18.00	\$29.40	Moderate-term on-the-job training
	41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	5	11,960	15,780	380	310	700	\$13.40	\$24.70	Moderate-term on-the-job training
41-9000	Other Sales and Related Workers		19,560	23,880	430	370	800			
	41-9011 Demonstrators and Product Promoters	2	1,340	1,930	60	30	90	\$7.60	\$10.70	Moderate-term on-the-job training
	41-9021 Real Estate Brokers	4	450	610	20	10	30	\$26.60	\$40.80	Related Work Experience
	41-9022 Real Estate Sales Agents	5	1,230	1,670	40	30	70	\$8.90	\$22.30	Postsecondary vocational training
	41-9031 Sales Engineers	5	1,320	1,640	30	40	70	\$20.10	\$34.40	Bachelor's degree
	41-9041 Telemarketers	3	8,790	9,300	50	140	200	\$7.80	\$10.80	Short-term on-the-job training
	41-9091 Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	0	510	590	10	10	20	\$7.90	\$12.40	Short-term on-the-job training
	41-9099 Sales and Related Workers, All Other	5	5,920	8,140	220	110	340	\$9.60	\$17.90	Moderate-term on-the-job training

* Annual Wages.

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code	Stars	Employment		Annual Openings			Hourly Wage		Training Level
		2002	2012	Growth	Replacements	Total	Entry	Average	
43-0000 Office and Administrative Support Occupations									
43-1000 Supervisors, Office and Administrative Support Workers		201,760	245,510	4,460	4,590	9,050			
43-1011 First-Line Supervisors/Managers of Office and Administrative Support Workers	5	10,090	12,020	190	220	410	\$12.10	\$18.40	Related Work Experience
43-2000 Communications Equipment Operators		2,140	2,230	30	60	80			
43-2011 Switchboard Operators, Including Answering Service	1	1,790	2,040	30	50	70	\$8.20	\$10.10	Short-term on-the-job training
43-2021 Telephone Operators	1	310	160	0	10	10			Short-term on-the-job training
43-3000 Financial Clerks		33,140	40,980	790	780	1,570			
43-3011 Bill and Account Collectors	4	6,750	9,590	280	130	410	\$9.70	\$13.00	Short-term on-the-job training
43-3021 Billing and Posting Clerks and Machine Operators	4	4,360	5,270	90	70	170	\$9.50	\$12.20	Moderate-term on-the-job training
43-3031 Bookkeeping, Accounting, and Auditing Clerks	4	14,940	17,420	250	280	530	\$8.80	\$12.50	Moderate-term on-the-job training
43-3051 Payroll and Timekeeping Clerks	4	1,170	1,410	20	30	60	\$10.50	\$14.30	Moderate-term on-the-job training
43-3061 Procurement Clerks	2	840	820	0	20	20	\$10.40	\$15.10	Short-term on-the-job training
43-3071 Tellers	2	5,080	6,470	140	250	390	\$8.00	\$9.50	Short-term on-the-job training
43-4000 Information and Record Clerks		60,380	79,450	1,910	1,260	3,180			
43-4011 Brokerage Clerks	2	310	260	0	0	0	\$12.20	\$15.60	Moderate-term on-the-job training
43-4021 Correspondence Clerks	1	100	110	0	0	0	\$9.80	\$12.80	Short-term on-the-job training
43-4031 Court, Municipal, and License Clerks	4	950	1,220	30	20	50	\$9.10	\$12.10	Short-term on-the-job training
43-4041 Credit Authorizers, Checkers, and Clerks	1	1,580	1,640	10	30	40	\$9.80	\$15.20	Short-term on-the-job training
43-4051 Customer Service Representatives	3	23,440	33,210	980	350	1,330	\$9.10	\$11.90	Moderate-term on-the-job training
43-4061 Eligibility Interviewers, Government Programs	1	330	410	10	10	20	\$12.20	\$12.90	Moderate-term on-the-job training
43-4071 File Clerks	1	2,040	2,260	20	60	80	\$7.20	\$9.60	Short-term on-the-job training
43-4081 Hotel, Motel, and Resort Desk Clerks	2	2,140	3,270	110	100	210	\$7.30	\$8.80	Short-term on-the-job training
43-4111 Interviewers, Except Eligibility and Loan	2	3,530	4,890	140	90	230	\$6.10	\$8.20	Short-term on-the-job training
43-4121 Library Assistants, Clerical	2	920	1,160	20	40	60	\$6.50	\$8.50	Short-term on-the-job training
43-4131 Loan Interviewers and Clerks	1	1,590	1,620	0	20	20	\$10.40	\$13.80	Short-term on-the-job training
43-4141 New Accounts Clerks	1	590	760	20	20	30	\$9.90	\$11.30	Related Work Experience
43-4151 Order Clerks	1	4,260	4,380	10	100	110	\$8.50	\$13.10	Short-term on-the-job training
43-4161 Human Resources Assistants, Except Payroll and Timekeeping	5	1,270	1,630	40	30	60	\$10.40	\$14.80	Short-term on-the-job training
43-4171 Receptionists and Information Clerks	3	10,550	14,910	440	260	700	\$7.50	\$9.70	Short-term on-the-job training
43-4181 Reservation and Transportation Ticket Agents and Travel Clerks	4	3,780	4,660	90	100	190	\$9.10	\$15.10	Short-term on-the-job training
43-4999 Financial, Information, and Record Clerks, All Other (OES Only)	3	3,000	3,070	10	50	50	\$10.10	\$15.70	Short-term on-the-job training
43-5000 Material Recording, Scheduling, Dispatching, and Distributing Workers		29,950	34,800	490	880	1,360			
43-5011 Cargo and Freight Agents	1	630	750	10	10	30	\$8.80	\$12.90	Moderate-term on-the-job training
43-5021 Couriers and Messengers	0	1,260	1,380	10	30	40	\$6.60	\$9.00	Short-term on-the-job training
43-5031 Police, Fire, and Ambulance Dispatchers	3	500	670	20	10	30	\$11.70	\$13.70	Moderate-term on-the-job training
43-5032 Dispatchers, Except Police, Fire, and Ambulance	5	1,610	1,940	30	40	70	\$10.70	\$16.60	Moderate-term on-the-job training
43-5041 Meter Readers, Utilities	1	430	490	10	10	20	\$8.30	\$12.90	Short-term on-the-job training
43-5051 Postal Service Clerks	5	600	830	20	20	40	\$18.20	\$18.80	Short-term on-the-job training
43-5052 Postal Service Mail Carriers	5	1,980	2,730	80	60	140	\$16.60	\$18.80	Short-term on-the-job training
43-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators	5	1,090	1,360	30	30	60	\$12.10	\$16.70	Short-term on-the-job training
43-5061 Production, Planning, and Expediting Clerks	5	2,460	3,160	70	60	130	\$11.80	\$17.40	Short-term on-the-job training
43-5071 Shipping, Receiving, and Traffic Clerks	3	6,410	7,340	90	130	220	\$8.50	\$11.60	Short-term on-the-job training
43-5081 Stock Clerks and Order Fillers	3	12,020	12,970	100	450	540	\$7.50	\$10.40	Short-term on-the-job training
43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping	3	730	960	20	20	40	\$9.50	\$12.60	Short-term on-the-job training
43-5199 Material Recording, Scheduling, Dispatching, and Distributing Workers, All Other (OES Only)	2	240	230	0	10	10			Short-term on-the-job training
43-6000 Secretaries and Administrative Assistants		26,920	31,300	440	520	950			
43-6011 Executive Secretaries and Administrative Assistants	5	11,070	13,130	210	210	420	\$11.70	\$15.40	Moderate-term on-the-job training
43-6012 Legal Secretaries	3	2,510	3,260	80	50	120	\$11.80	\$14.80	Postsecondary vocational training
43-6013 Medical Secretaries	2	2,080	2,650	60	40	100	\$9.40	\$12.00	Postsecondary vocational training
43-6014 Secretaries, Except Legal, Medical, and Executive	3	11,270	12,270	100	220	320	\$8.80	\$11.90	Moderate-term on-the-job training
43-9000 Other Office and Administrative Support Workers		39,140	44,730	620	880	1,500			
43-9011 Computer Operators	1	1,790	1,620	0	40	40	\$8.90	\$14.40	Moderate-term on-the-job training
43-9021 Data Entry Keyers	3	3,560	3,770	20	80	110	\$8.30	\$10.60	Moderate-term on-the-job training
43-9022 Word Processors and Typists	1	870	570	0	20	20	\$8.50	\$12.40	Moderate-term on-the-job training
43-9031 Desktop Publishers	0	240	340	10	10	20	\$9.10	\$11.90	Postsecondary vocational training
43-9041 Insurance Claims and Policy Processing Clerks	4	1,830	2,300	50	30	80	\$9.80	\$13.10	Moderate-term on-the-job training
43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service	0	2,500	2,380	0	80	80	\$8.20	\$9.90	Short-term on-the-job training
43-9061 Office Clerks, General	3	25,330	30,450	510	560	1,070	\$7.30	\$10.50	Short-term on-the-job training
43-9071 Office Machine Operators, Except Computer	0	790	830	10	20	30	\$7.90	\$12.30	Short-term on-the-job training
43-9081 Proofreaders and Copy Markers	0	230	250	0	10	10	\$7.20	\$10.40	Short-term on-the-job training
43-9111 Statistical Assistants	1	150	160	0	0	0	\$8.60	\$12.50	Moderate-term on-the-job training
43-9999 Secretaries, Administrative Assistants, and Other Office Support Workers, All Other (OES Only)	3	1,860	2,070	20	40	60	\$8.30	\$12.70	Short-term on-the-job training

* Annual Wages.

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code	Stars	Employment		Growth	Annual Openings		Hourly Wage		Training Level
		2002	2012		Replace-ments	Total	Entry	Average	
45-0000 Farming, Fishing, and Forestry Occupations		15,190	15,710	50	430	480			
45-1000 Supervisors, Farming, Fishing and Forestry Workers		720	840	10	20	30			
45-1011 First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	3	720	840	10	20	30	\$14.30	\$18.80	Related Work Experience
45-2000 Agricultural Workers		14,340	14,730	40	410	440			
45-2011 Agricultural Inspectors	2	100	110	0	0	0	\$11.80	\$15.50	Related Work Experience
45-2021 Animal Breeders	0	90	100	0	0	0			Moderate-term on-the-job training
45-2041 Graders and Sorters, Agricultural Products	0	590	670	10	20	20	\$8.00	\$10.00	Related Work Experience
45-2091 Agricultural Equipment Operators	0	1,150	1,220	10	30	40	\$8.30	\$10.50	Moderate-term on-the-job training
45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse	2	11,730	11,880	20	330	350	\$6.90	\$8.20	Short-term on-the-job training
45-2093 Farmworkers, Farm and Ranch Animals	0	690	750	10	20	30	\$8.30	\$10.80	Short-term on-the-job training
45-4000 Forest, Conservation, and Logging Workers		110	130	0	0	0			
45-4022 Logging Equipment Operators	1	60	70	0	0	0	\$9.30	\$13.10	Moderate-term on-the-job training
45-9000 Farming, Fishing, and Forestry Workers, All Other (OES Only)		1,610	1,690	10	40	50			
45-9099 Farming, Fishing, and Forestry Workers, All Other (OES Only)	0	1,610	1,690	10	40	50	\$6.30	\$8.40	Moderate-term on-the-job training

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replace-ments	Total	Entry		Average
47-0000 Construction and Extraction Occupations			80,160	107,980	2,790	1,630	4,420			
47-1000 Supervisors, Construction and Extraction Workers			6,820	9,310	250	120	370			
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	5	6,820	9,310	250	120	370	\$15.40	\$21.90	Related Work Experience
47-2000 Construction Trades Workers			62,310	84,690	2,240	1,160	3,390			
47-2011	Boilermakers	3	180	210	0	10	10	\$16.80	\$22.00	Long-term on-the-job training
47-2021	Brickmasons and Blockmasons	5	1,640	2,180	50	20	80	\$17.10	\$22.30	Long-term on-the-job training
47-2022	Stonemasons	4	180	240	10	0	10	\$11.30	\$20.60	Long-term on-the-job training
47-2031	Carpenters	5	15,180	20,710	550	250	800	\$11.30	\$15.90	Long-term on-the-job training
47-2041	Carpet Installers	4	460	660	20	10	30	\$8.20	\$13.80	Moderate-term on-the-job training
47-2043	Floor Sanders and Finishers	3	460	580	10	10	20	\$9.50	\$12.80	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	5	690	940	30	10	40	\$11.30	\$15.70	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	4	3,140	4,530	140	60	200	\$9.20	\$18.70	Moderate-term on-the-job training
47-2061	Construction Laborers	3	8,260	11,500	330	110	440	\$8.50	\$11.40	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	4	380	490	10	10	20	\$13.20	\$15.90	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	5	3,680	4,740	110	100	200	\$12.90	\$16.70	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	5	1,840	2,570	70	40	110	\$10.80	\$15.10	Moderate-term on-the-job training
47-2082	Tapers	5	980	1,360	40	20	60	\$9.70	\$16.00	Moderate-term on-the-job training
47-2111	Electricians	5	6,810	9,470	270	140	400	\$9.20	\$16.80	Long-term on-the-job training
47-2121	Glaziers	4	610	770	20	10	30	\$12.10	\$16.80	Long-term on-the-job training
47-2130	Insulation Workers	3	450	580	10	10	30	\$9.10	\$15.40	Moderate-term on-the-job training
47-2141	Painters, Construction and Maintenance	4	4,960	6,550	160	80	230	\$9.80	\$13.80	Moderate-term on-the-job training
47-2142	Paperhangers	3	60	80	0	0	0			Moderate-term on-the-job training
47-2151	Pipelayers	4	1,300	1,770	50	30	80	\$9.60	\$13.30	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	5	4,100	5,590	150	90	240	\$13.80	\$19.40	Long-term on-the-job training
47-2161	Plasterers and Stucco Masons	5	1,390	1,780	40	30	60	\$11.20	\$15.90	Long-term on-the-job training
47-2171	Reinforcing Iron and Rebar Workers	4	330	440	10	10	20	\$11.50	\$14.20	Long-term on-the-job training
47-2181	Roofers	4	2,470	3,370	90	60	150	\$8.50	\$13.30	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	5	2,050	2,620	60	50	110	\$10.20	\$16.60	Moderate-term on-the-job training
47-2221	Structural Iron and Steel Workers	4	680	900	20	10	40	\$10.50	\$17.00	Long-term on-the-job training
47-3000 Helpers, Construction Trades			5,330	7,100	180	220	400			
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	0	750	850	10	30	40	\$8.80	\$11.30	Short-term on-the-job training
47-3012	Helpers--Carpenters	2	2,030	2,830	80	80	170	\$7.20	\$9.20	Short-term on-the-job training
47-3013	Helpers--Electricians	3	350	450	10	10	30	\$8.80	\$12.00	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	2	690	890	20	30	50	\$7.70	\$9.60	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1	410	520	10	20	30	\$8.10	\$10.90	Short-term on-the-job training
47-3016	Helpers--Roofers	1	220	290	10	10	20	\$7.60	\$9.40	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	3	890	1,280	40	40	80	\$7.10	\$10.00	Short-term on-the-job training
47-4000 Other Construction and Related Workers			2,460	3,200	80	40	120			
47-4011	Construction and Building Inspectors	5	440	600	20	10	30	\$15.70	\$20.70	Related Work Experience
47-4031	Fence Erectors	1	480	630	20	10	20	\$9.70	\$11.60	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	4	270	360	10	10	20	\$11.80	\$15.40	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	4	690	900	20	10	30	\$12.20	\$16.60	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	2	90	80	0	0	0	\$15.80	\$18.00	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	1	80	90	0	0	0	\$10.30	\$15.10	Moderate-term on-the-job training
47-4999	Construction Trades and Related Workers, All Other (OES Only)	3	400	530	10	10	20	\$8.70	\$13.80	Moderate-term on-the-job training
47-5000 Extraction Workers			3,240	3,670	50	90	140			
47-5011	Derrick Operators, Oil and Gas	2	130	150	0	0	10	\$13.20	\$16.80	Moderate-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	2	80	90	0	0	0	\$15.50	\$19.80	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	2	420	460	10	10	20			Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	3	330	410	10	10	20	\$12.10	\$16.90	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	2	70	80	0	0	0	\$14.20	\$17.60	Moderate-term on-the-job training
47-5041	Continuous Mining Machine Operators	2	320	300	0	10	10	\$15.70	\$18.40	Moderate-term on-the-job training
47-5042	Mine Cutting and Channeling Machine Operators	5	500	680	20	10	30			Moderate-term on-the-job training
47-5049	Mining Machine Operators, All Other	2	50	50	0	0	0	\$15.10	\$17.80	Moderate-term on-the-job training
47-5061	Roof Bolters, Mining	2	100	90	0	0	0	\$15.30	\$16.90	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	0	590	660	10	20	20	\$9.10	\$12.70	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	3	600	670	10	20	20	\$9.90	\$13.90	Short-term on-the-job training

* Annual Wages.

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level	
			2002	2012	Growth	Replacements	Total	Entry		Average
49-0000	Installation, Maintenance, and Repair		49,020	63,030	1,400	1,130	2,530			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers		3,500	4,490	100	90	190			
	49-1011 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	5	3,500	4,490	100	90	190	\$13.40	\$22.10	Related Work Experience
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers		8,160	9,500	140	160	290			
	49-2011 Computer, Automated Teller, and Office Machine Repairers	3	1,590	1,910	30	20	50	\$10.40	\$16.30	Postsecondary vocational training
	49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers	4	2,470	2,750	30	50	80	\$19.40	\$23.20	Long-term on-the-job training
	49-2091 Avionics Technicians	2	680	710	0	20	20	\$17.50	\$20.10	Postsecondary vocational training
	49-2092 Electric Motor, Power Tool, and Related Repairers	0	220	270	10	10	10	\$6.60	\$12.50	Postsecondary vocational training
	49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment	0	110	140	0	0	10	\$10.00	\$14.60	Postsecondary vocational training
	49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment	3	1,010	1,180	20	20	40	\$13.70	\$19.50	Postsecondary vocational training
	49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	2	180	220	0	0	10	\$21.90	\$27.30	Postsecondary vocational training
	49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles	0	120	160	0	0	10	\$9.10	\$12.90	Postsecondary vocational training
	49-2097 Electronic Home Entertainment Equipment Installers and Repairers	1	1,400	1,660	30	30	50	\$12.30	\$15.10	Postsecondary vocational training
	49-2098 Security and Fire Alarm Systems Installers	4	280	400	10	10	20	\$12.30	\$18.40	Postsecondary vocational training
	49-2099 Electrical and Electronic Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	0	50	70	0	0	0			Postsecondary vocational training
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers		18,200	23,340	510	470	990			
	49-3011 Aircraft Mechanics and Service Technicians	4	2,030	2,240	20	50	70	\$14.90	\$20.50	Postsecondary vocational training
	49-3021 Automotive Body and Related Repairers	5	2,050	2,730	70	40	110	\$10.70	\$18.20	Long-term on-the-job training
	49-3022 Automotive Glass Installers and Repairers	4	90	120	0	0	10			Long-term on-the-job training
	49-3023 Automotive Service Technicians and Mechanics	4	6,910	9,210	230	180	410	\$9.40	\$15.90	Postsecondary vocational training
	49-3031 Bus and Truck Mechanics and Diesel Engine Specialists	4	3,360	4,400	100	90	190	\$11.50	\$16.40	Postsecondary vocational training
	49-3041 Farm Equipment Mechanics	0	420	490	10	10	20			Postsecondary vocational training
	49-3042 Mobile Heavy Equipment Mechanics, Except Engines	3	1,530	1,810	30	30	60	\$13.40	\$17.30	Postsecondary vocational training
	49-3051 Motorboat Mechanics	4	110	180	10	0	10	\$10.50	\$14.20	Long-term on-the-job training
	49-3052 Motorcycle Mechanics	4	150	210	10	0	10	\$9.80	\$14.60	Long-term on-the-job training
	49-3053 Outdoor Power Equipment and Other Small Engine Mechanics	1	220	290	10	10	10	\$7.80	\$11.40	Moderate-term on-the-job training
	49-3091 Bicycle Repairers	0	80	100	0	0	10	\$8.30	\$10.90	Moderate-term on-the-job training
	49-3092 Recreational Vehicle Service Technicians	4	180	250	10	10	20	\$11.40	\$15.00	Long-term on-the-job training
	49-3093 Tire Repairers and Changers	2	880	1,080	20	40	60	\$7.30	\$9.40	Short-term on-the-job training
	49-3099 Vehicle and Mobile Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	3	160	200	0	0	10	\$10.20	\$17.30	Moderate-term on-the-job training
49-9000	Other Installation, Maintenance, and Repair Occupations		19,160	25,700	660	410	1,070			
	49-9011 Mechanical Door Repairers	3	50	70	0	0	0			Moderate-term on-the-job training
	49-9012 Control and Valve Installers and Repairers, Except Mechanical Door	4	610	770	20	20	30	\$13.60	\$18.50	Moderate-term on-the-job training
	49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers	5	2,460	3,680	120	30	150	\$12.00	\$16.60	Long-term on-the-job training
	49-9031 Home Appliance Repairers	0	310	370	10	10	10			Long-term on-the-job training
	49-9041 Industrial Machinery Mechanics	5	1,580	2,010	40	30	80	\$14.20	\$20.20	Long-term on-the-job training
	49-9042 Maintenance and Repair Workers, General	5	8,150	11,030	290	160	440	\$8.90	\$14.20	Moderate-term on-the-job training
	49-9043 Maintenance Workers, Machinery	4	790	980	20	20	40	\$10.60	\$15.60	Short-term on-the-job training
	49-9044 Millwrights	3	270	310	10	10	10	\$13.60	\$18.30	Long-term on-the-job training
	49-9051 Electrical Power-Line Installers and Repairers	5	950	1,240	30	30	60	\$11.70	\$20.80	Long-term on-the-job training
	49-9052 Telecommunications Line Installers and Repairers	5	700	940	30	20	40	\$9.90	\$15.30	Long-term on-the-job training
	49-9062 Medical Equipment Repairers	3	160	210	10	0	10	\$16.20	\$21.10	Associate degree
	49-9069 Precision Instrument and Equipment Repairers, All Other	3	220	260	0	10	10	\$12.00	\$17.80	Long-term on-the-job training
	49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers	4	120	190	10	0	10	\$7.90	\$13.20	Moderate-term on-the-job training
	49-9094 Locksmiths and Safe Repairers	1	250	350	10	10	20	\$8.70	\$13.10	Moderate-term on-the-job training
	49-9096 Riggers	3	350	470	10	10	20	\$8.80	\$13.90	Short-term on-the-job training
	49-9098 Helpers--Installation, Maintenance, and Repair Workers	3	990	1,330	30	30	70	\$7.60	\$11.40	Short-term on-the-job training
	49-9099 Installation, Maintenance, and Repair Workers, All Other	3	1,030	1,290	30	20	50	\$9.50	\$14.00	Moderate-term on-the-job training

* Annual Wages.

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Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code	Stars	Employment		Annual Openings			Hourly Wage		Training Level
		2002	2012	Growth	Replacements	Total	Entry	Average	
51-0000 Production Occupations		86,830	103,760	1,710	2,110	3,820			
51-1000 Supervisors, Production Workers		5,690	7,150	150	120	270			
51-1011 First-Line Supervisors/Managers of Production and Operating Workers	5	5,690	7,150	150	120	270	\$12.80	\$19.90	Related Work Experience
51-2000 Assemblers and Fabricators		18,690	20,480	190	480	660			
51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	2	60	60	0	0	0			Long-term on-the-job training
51-2021 Coil Winders, Tapers, and Finishers	0	100	100	0	0	0			Short-term on-the-job training
51-2022 Electrical and Electronic Equipment Assemblers	0	1,360	1,280	0	30	30	\$8.60	\$10.80	Short-term on-the-job training
51-2023 Electromechanical Equipment Assemblers	1	350	370	0	10	10	\$10.00	\$13.90	Short-term on-the-job training
51-2031 Engine and Other Machine Assemblers	2	60	70	0	0	0	\$12.30	\$15.70	Short-term on-the-job training
51-2041 Structural Metal Fabricators and Fitters	1	1,060	1,210	20	30	40	\$9.70	\$13.40	Moderate-term on-the-job training
51-2091 Fiberglass Laminators and Fabricators	0	180	210	0	10	10	\$9.70	\$11.60	Moderate-term on-the-job training
51-2092 Team Assemblers	3	13,510	14,800	130	350	480	\$8.60	\$11.20	Moderate-term on-the-job training
51-2099 Assemblers and Fabricators, All Other	3	2,020	2,380	40	50	90	\$7.40	\$12.20	Moderate-term on-the-job training
51-3000 Food Processing Workers		5,720	7,430	170	130	300			
51-3011 Bakers	3	1,800	2,390	60	40	100	\$7.30	\$10.70	Long-term on-the-job training
51-3021 Butchers and Meat Cutters	1	1,080	1,240	20	20	40	\$9.20	\$13.20	Long-term on-the-job training
51-3022 Meat, Poultry, and Fish Cutters and Trimmers	3	580	780	20	10	30			Short-term on-the-job training
51-3023 Slaughterers and Meat Packers	2	420	580	20	10	30			Moderate-term on-the-job training
51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	0	140	170	0	0	10	\$7.60	\$11.20	Short-term on-the-job training
51-3092 Food Batchmakers	3	990	1,380	40	20	60	\$7.30	\$10.80	Short-term on-the-job training
51-3093 Food Cooking Machine Operators and Tenders	3	590	730	20	10	30	\$9.90	\$12.10	Short-term on-the-job training
51-3099 Food Processing Workers, All Other (OES Only)	1	130	170	0	0	10	\$6.80	\$9.10	Short-term on-the-job training
51-4000 Metal Workers and Plastic Workers		15,060	18,020	290	380	670			
51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic	3	520	620	10	10	20	\$10.80	\$14.80	Moderate-term on-the-job training
51-4012 Numerical Tool and Process Control Programmers	3	60	80	0	0	0	\$13.20	\$18.00	Long-term on-the-job training
51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	1	750	860	10	30	40	\$9.40	\$12.60	Moderate-term on-the-job training
51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic	3	110	130	0	0	0	\$10.80	\$14.50	Moderate-term on-the-job training
51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	2	360	400	0	10	10	\$10.80	\$15.70	Moderate-term on-the-job training
51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	3	830	1,030	20	20	40	\$9.20	\$11.60	Moderate-term on-the-job training
51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	240	270	0	10	10	\$9.20	\$14.60	Moderate-term on-the-job training
51-4033 Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	0	570	660	10	10	20	\$8.20	\$11.20	Moderate-term on-the-job training
51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3	400	470	10	10	10	\$10.00	\$15.60	Moderate-term on-the-job training
51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	0	290	340	10	10	10	\$9.50	\$12.30	Moderate-term on-the-job training
51-4041 Machinists	5	3,520	4,120	60	80	140	\$10.60	\$15.80	Long-term on-the-job training
51-4051 Metal-Refining Furnace Operators and Tenders	2	110	130	0	0	0	\$11.60	\$15.70	Moderate-term on-the-job training
51-4052 Pourers and Casters, Metal	2	80	90	0	0	0	\$11.30	\$13.90	Moderate-term on-the-job training
51-4061 Model Makers, Metal and Plastic	4	160	210	10	10	10			Moderate-term on-the-job training
51-4062 Patternmakers, Metal and Plastic	1	50	50	0	0	0	\$8.50	\$11.80	Moderate-term on-the-job training
51-4071 Foundry Mold and Coremakers	1	150	180	0	0	10	\$9.30	\$12.50	Moderate-term on-the-job training
51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1	870	1,040	20	20	40	\$9.00	\$12.20	Moderate-term on-the-job training
51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	450	540	10	10	20	\$9.70	\$13.40	Moderate-term on-the-job training
51-4111 Tool and Die Makers	2	310	340	0	10	10	\$14.20	\$19.60	Long-term on-the-job training
51-4121 Welders, Cutters, Solderers, and Brazers	4	4,080	5,220	110	120	230	\$10.40	\$14.10	Long-term on-the-job training
51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1	260	270	0	10	10	\$10.30	\$13.40	Moderate-term on-the-job training
51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	1	100	110	0	0	0	\$10.30	\$13.50	Moderate-term on-the-job training
51-4192 Lay-Out Workers, Metal and Plastic	1	160	190	0	0	10	\$11.20	\$14.00	Moderate-term on-the-job training
51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	1	280	290	0	10	10	\$9.20	\$13.10	Moderate-term on-the-job training
51-4194 Tool Grinders, Filers, and Sharpeners	2	130	140	0	0	10	\$9.90	\$13.80	Moderate-term on-the-job training
51-4199 Metal Workers and Plastic Workers, All Other	2	230	250	0	10	10	\$9.70	\$16.20	Moderate-term on-the-job training
51-5000 Printing Workers		3,320	3,880	60	80	140			
51-5011 Bindery Workers	0	770	820	10	20	30	\$6.50	\$10.20	Short-term on-the-job training
51-5012 Bookbinders	3	60	80	0	0	0	\$11.40	\$14.60	Moderate-term on-the-job training
51-5021 Job Printers	3	500	670	20	10	30	\$9.80	\$14.30	Long-term on-the-job training
51-5022 Prepress Technicians and Workers	1	700	720	0	20	20	\$8.30	\$13.50	Long-term on-the-job training
51-5023 Printing Machine Operators	5	1,270	1,570	30	30	60	\$9.10	\$15.30	Moderate-term on-the-job training

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Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings			Hourly Wage		Training Level
			2002	2012	Growth	Replace-ments	Total	Entry	Average	
51-6000	Textile, Apparel, and Furnishings Workers		6,140	7,070	100	130	220			
51-6011	Laundry and Dry-Cleaning Workers	2	2,080	2,570	50	60	110	\$6.70	\$8.00	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	1	370	490	10	10	20	\$6.10	\$7.30	Short-term on-the-job training
51-6031	Sewing Machine Operators	0	1,870	1,950	10	20	30	\$7.20	\$10.00	Moderate-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	1	80	110	0	0	10	\$9.00	\$10.50	Long-term on-the-job training
51-6051	Sewers, Hand	0	100	110	0	0	0			Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	1	350	370	0	10	10	\$9.40	\$12.90	Long-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	0	140	140	0	0	0	\$7.70	\$11.90	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	1	230	270	0	10	10	\$10.80	\$12.70	Moderate-term on-the-job training
51-6093	Upholsterers	1	710	790	10	20	30			Long-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	1	130	180	10	0	10			Short-term on-the-job training
51-7000	Woodworkers		4,780	5,810	100	120	220			
51-7011	Cabinetmakers and Bench Carpenters	3	3,210	4,000	80	80	160	\$8.80	\$11.60	Long-term on-the-job training
51-7021	Furniture Finishers	0	560	670	10	10	20	\$8.80	\$11.60	Long-term on-the-job training
51-7031	Model Makers, Wood	0	130	170	0	0	10			Long-term on-the-job training
51-7032	Patternmakers, Wood	1	100	120	0	0	10			Long-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	0	300	320	0	10	10	\$7.40	\$10.60	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	0	400	450	10	10	20	\$7.60	\$10.50	Moderate-term on-the-job training
51-7099	Woodworkers, All Other	0	90	100	0	0	0	\$8.60	\$11.60	Moderate-term on-the-job training
51-8000	Plant and System Operators		2,320	2,840	50	70	130			
51-8012	Power Distributors and Dispatchers	3	130	160	0	0	10			Long-term on-the-job training
51-8013	Power Plant Operators	3	390	470	10	10	20	\$19.10	\$25.70	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	2	150	160	0	0	0	\$13.70	\$19.10	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	5	750	1,040	30	30	60	\$13.60	\$20.00	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	2	290	320	0	10	10	\$15.50	\$17.30	Long-term on-the-job training
51-8092	Gas Plant Operators	4	220	280	10	10	10	\$18.60	\$23.60	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	2	310	320	0	10	10	\$18.40	\$23.10	Long-term on-the-job training
51-8099	Plant and System Operators, All Other	2	90	100	0	0	0	\$14.80	\$18.80	Long-term on-the-job training
51-9000	Other Production Occupations		25,110	31,070	600	610	1,210			
51-9011	Chemical Equipment Operators and Tenders	3	160	180	0	10	10	\$11.30	\$14.50	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	3	240	280	0	10	10	\$11.80	\$18.70	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	2	660	710	10	20	20	\$10.50	\$15.50	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	0	510	590	10	10	20	\$8.00	\$10.60	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1	610	670	10	20	20	\$8.80	\$12.30	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	1	210	270	10	0	10	\$6.20	\$8.20	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	1	800	1,000	20	20	40	\$8.10	\$11.60	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	0	380	440	10	10	20	\$8.70	\$11.10	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	2	120	120	0	0	0	\$12.50	\$16.10	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	4	3,160	3,700	60	70	130	\$9.50	\$15.00	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	1	600	780	20	10	30			Postsecondary vocational training
51-9081	Dental Laboratory Technicians	3	670	840	20	20	30	\$7.90	\$14.80	Long-term on-the-job training
51-9082	Medical Appliance Technicians	2	660	900	20	10	40			Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	0	250	290	0	10	10	\$7.80	\$10.50	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	3	3,560	4,800	120	70	200	\$8.10	\$11.00	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	3	870	1,090	20	20	40	\$9.10	\$11.80	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	5	450	640	20	10	30	\$11.20	\$16.90	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	1	220	300	10	10	10	\$7.50	\$9.80	Short-term on-the-job training
51-9131	Photographic Process Workers	0	290	340	10	10	10	\$9.20	\$11.60	Moderate-term on-the-job training
51-9132	Photographic Processing Machine Operators	0	340	420	10	10	20	\$7.50	\$10.60	Short-term on-the-job training
51-9141	Semiconductor Processors	0	700	730	0	20	20			Associate degree
51-9191	Cementing and Gluing Machine Operators and Tenders	1	160	190	0	0	10	\$9.60	\$12.50	Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	1	250	320	10	10	10	\$7.10	\$10.10	Moderate-term on-the-job training
51-9194	Etchers and Engravers	0	70	70	0	0	0			Long-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	0	440	550	10	10	20	\$8.20	\$11.80	Moderate-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	4	960	1,260	30	20	50	\$9.20	\$13.20	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	2	5,990	7,630	160	170	330	\$6.90	\$9.00	Short-term on-the-job training
51-9199	Production Workers, All Other	0	1,770	1,910	20	40	60	\$7.60	\$10.90	Moderate-term on-the-job training

* Annual Wages.

Note: Data may not add to total due to rounding and the exclusion of occupations with small employment.

Source: Utah Department of Workforce Services, September 2004.

Utah Occupational Projections 2002 - 2012

SOC Code		Stars	Employment		Annual Openings		Hourly Wage		Training Level
			2002	2012	Growth	Replace-ments	Total	Entry	
53-0000	Transportation and Material Moving Occupations		80,040	100,610	2,070	1,710	3,780		
53-1000	Supervisors, Transportation and Material Moving Occupations		3,660	4,570	90	90	180		
53-1011	Aircraft Cargo Handling Supervisors	3	170	200	0	0	10		Related Work Experience
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	5	1,320	1,660	30	30	70	\$12.20	\$18.50
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	5	2,170	2,710	50	50	110	\$11.90	\$20.50
53-2000	Air Transportation Workers		2,840	3,630	80	80	150		
53-2011	Airline Pilots, Copilots, and Flight Engineers	4	2,160	2,830	70	60	130	\$31,300	\$83,300 *
53-2012	Commercial Pilots	3	150	200	0	0	10	\$26,900	\$38,900 *
53-2021	Air Traffic Controllers	2	410	460	10	10	20	\$31.90	\$44.70
53-2022	Airfield Operations Specialists	3	80	100	0	0	0	\$6.60	\$11.50
53-3000	Motor Vehicle Operators		38,110	50,100	1,200	570	1,770		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	1	60	80	0	0	0		Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	5	1,360	1,790	40	30	70		Moderate-term on-the-job training
53-3022	Bus Drivers, School	4	3,350	4,370	100	70	180	\$7.80	\$11.60
53-3031	Driver/Sales Workers	3	3,830	4,710	90	60	150	\$7.10	\$11.80
53-3032	Truck Drivers, Heavy and Tractor-Trailer	5	18,170	24,150	600	300	900	\$11.50	\$16.30
53-3033	Truck Drivers, Light or Delivery Services	3	9,890	13,140	330	90	420	\$8.20	\$13.00
53-3041	Taxi Drivers and Chauffeurs	1	630	840	20	10	30	\$6.90	\$9.40
53-3099	Motor Vehicle Operators, All Other	1	840	1,030	20	10	30	\$6.60	\$11.00
53-4000	Rail Transportation Workers		1,230	1,170	0	30	40		
53-4011	Locomotive Engineers	2	440	410	0	10	10	\$19.60	\$26.30
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	2	90	100	0	0	0	\$15.10	\$17.70
53-4021	Railroad Brake, Signal, and Switch Operators	2	220	170	0	0	0		Related Work Experience
53-4031	Railroad Conductors and Yardmasters	2	430	410	0	10	10	\$18.70	\$24.20
53-4099	Rail Transportation Workers, All Other	4	50	70	0	0	0		Related Work Experience
53-6000	Other Transportation Workers		1,780	2,270	50	60	110		
53-6021	Parking Lot Attendants	2	520	710	20	20	30	\$6.10	\$7.50
53-6031	Service Station Attendants	2	680	880	20	30	50	\$7.10	\$9.20
53-6041	Traffic Technicians	0	170	200	0	10	10	\$9.60	\$11.40
53-6051	Transportation Inspectors	2	300	320	0	10	10	\$12.30	\$22.80
53-6099	Transportation Workers, All Other	3	120	160	0	0	10		Short-term on-the-job training
53-7000	Material Moving Workers		32,410	38,860	650	890	1,530		
53-7011	Conveyor Operators and Tenders	3	300	360	10	10	10	\$10.50	\$13.50
53-7021	Crane and Tower Operators	3	260	310	10	10	10	\$15.20	\$19.20
53-7032	Excavating and Loading Machine and Dragline Operators	5	840	1,130	30	20	50	\$12.20	\$15.80
53-7033	Loading Machine Operators, Underground Mining	2	160	150	0	0	0		Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	4	4,100	5,130	100	80	180	\$9.30	\$12.50
53-7061	Cleaners of Vehicles and Equipment	2	2,970	3,730	80	100	180	\$6.50	\$8.60
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2	13,690	15,710	200	450	650	\$7.20	\$10.30
53-7063	Machine Feeders and Offbearers	1	1,120	1,300	20	30	50	\$7.30	\$10.30
53-7064	Packers and Packagers, Hand	2	6,660	8,320	170	130	290	\$6.10	\$8.10
53-7072	Pump Operators, Except Wellhead Pumps	5	210	300	10	10	10		Moderate-term on-the-job training
53-7073	Wellhead Pumps	2	130	130	0	0	0	\$14.30	\$19.30
53-7081	Refuse and Recyclable Material Collectors	3	1,100	1,280	20	30	50	\$8.80	\$13.80
53-7111	Shuttle Car Operators	2	170	130	0	0	0		Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	3	140	160	0	0	10	\$11.70	\$15.30
53-7199	Material Moving Workers, All Other	3	490	640	20	10	30	\$6.80	\$13.90

* Annual Wages.

NOTE: Detail may not add to totals due to rounding and the exclusion of occupations with small employment levels.

Source: Utah Department of Workforce Services, August 2004.

* Annual Wages.

Note: Data may not add to total due to rounding and the exclusion of occupations with small employment.

Source: Utah Department of Workforce Services, September 2004.